



# Sun StorEdge™ Component Manager 2.1 Installation Guide

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For the Microsoft NT Operating Environment

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# Preface

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The *Sun StorEdge Component Manager Installation Guide* provides instructions for installing the Sun StorEdge™ Component Manager 2.1 software, verifying the installation, launching the software, and de-installing the software.

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## Before You Read This Book

For the latest Component Manager information, please see the *Sun StorEdge Component Manager 2.1 Release Notes*.

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## How This Book Is Organized

**Chapter 1** describes the steps needed to install the software, as well as how to stop and restart the software.

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# Typographic Conventions

Typeface	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. % You have mail.
<b>AaBbCc123</b>	What you type, when contrasted with on-screen computer output	% <b>su</b> Password:
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be superuser to do this.
	Command-line variable; replace with a real name or value	To delete a file, type <code>rm filename</code> .

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## Related Documentation

Application	Title	Part Number
Install	<i>Sun StorEdge Component Manager 2.1 Installation Guide: For the Solaris Operating Environment</i>	806-4811
User	<i>Sun StorEdge Component Manager 2.1 User's Guide</i>	806-4812
Release	<i>Sun StorEdge Component Manager 2.1 Release Notes</i>	806-4813
Help	Sun StorEdge Component Manager Online Help	
Install/ User	<i>Switch Management Installer's User's Manual</i>	875-1890
User	<i>SANbox -8 Fibre Channel Switch Installer's/User's Manual</i>	875-1881

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# Installing Sun StorEdge Component Manager

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This chapter contains the following topics for installing the Sun StorEdge Component Manager 2.1 software in the Microsoft NT operating environment:

- “Introduction to Sun StorEdge Component Manager” on page 2
- “Pre-installation Requirements” on page 2
- “Installing the Software” on page 4
- “Configuring Component Manager” on page 8
- “Starting Component Manager” on page 10
- “Uninstalling the Software” on page 12

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**Note** – You should read this chapter before attempting to install or operate Sun StorEdge Component Manager on a Sun StorEdge T300, Sun StorEdge T301, or Sun StorEdge T310 disk trays. (All supported disk trays, that is T300, T301, or T310 are referred to as “T300” within this document.)

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# Introduction to Sun StorEdge Component Manager

Sun StorEdge Component Manager is a graphical interface that enables you to monitor and manage subsystem storage enclosures. Component Manager 2.1 supports Sun StorEdge T300 components and operates under the Solaris 2.6, Solaris 7, and Solaris 8 operating environments as well as the Microsoft NT operating environment.

Specifically, Sun StorEdge Component Manager provides status monitoring, alarm notification, email and remote service support functionality, and control capability for a single enclosure or multiple enclosures where management information is accessible by a single host via ethernet.

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## Pre-installation Requirements

Before installing the Sun StorEdge Component Manager software, verify that you have met the following requirements:

- A *minimum* of 140MB has been allotted for Sun StorEdge Component Manager virtual memory usage. Each additional enclosure requires approximately 3MB of virtual memory.
- You have allotted 36 MB disk space:
- The Sun StorEdge T300 configuration must be correct. Refer to the *Sun StorEdge T300 Installation, Operation and Service Manual* and the *Sun StorEdge T300 Administrator's Guide* for more details.
- You are using Microsoft Windows NT 4.0.

## Memory Guidelines

Component Manager requires a minimum of 174MB of virtual memory, and 0.5MB of virtual memory for each additional enclosure or disk tray. Also, Component Manager requires 8% of the CPU capacity, with .18% increase for each additional enclosure.

As a guideline, you should have approximately 50MB of available physical memory. (Use the `vmstat` command to check the Memory/Free.)

If Component Manager performance is an issue due to system resource requirements, we recommend you move the Component Manager application to another server with less load and monitor the Sun StorEdge T300 disk trays from that server. As the monitoring of the Sun StorEdge T300 disk trays is done through the ethernet, Component Manager does not have to run on the same host to which the Sun StorEdge T300 disk trays are attached.

If necessary (that is, a mixed environment of Sun StorEdge T300 disk trays and Sun StorEdge A5x00 enclosures) you may partition the monitoring by utilizing another host for monitoring the disk trays and continuing to monitor the enclosures from the initial host. Sun StorEdge A5x00 enclosures may be monitored from any host on the same FC loop.

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# Installing the Software

Installing the software is a simple process, taking up to fifteen minutes to complete. You must be the Administrator to correctly install the software.

- 1. Load the disc with the label-side facing up into the CD-ROM drive.**
- 2. Start Windows NT Explorer.**
  - a. From the Start Menu: select Programs->Windows NT Explorer.**
- 3. Select the CD-ROM drive in the left panel.**
- 4. Start the installation script.**

`cdrom:\Component_Mgr\WinNT_4.0\StorEdgeComponentManager.exe`

- a. Double-click on StorEdgeComponentManager.exe.**
- b. Click the Next button at the Sun StorEdge Component Manager Setup window to continue.**

To install Component Manager, the Sun StorEdge Management Console must be installed, which in turn, requires the installation of Cygwin and the Java2 Runtime Environment. The installation script checks for all of this software and will install any which is missing.

## Installing the Sun StorEdge Management Console

If not installed, you will be prompted whether to install the Sun StorEdge Management Console.

- 1. Click the Yes button to continue.**
- 2. Click the Next button at the Sun StoreEdge Management Console Setup window.**
- 3. Click the Yes button to accept the License Agreement.**
- 4. Click the Yes button to after reading Read Me.**

**5. Choose the destination folder.**

Select a folder by performing one of the following:

- a. Click the Next button to accept the default folder.**
- b. Click on the Browse button to navigate to the desired location.**

**6. Choose the type of installation.**

- a. Select “Typical” from the list.**
- b. Click the Next button.**

**7. Choose the destination name.**

Select a folder by performing one of the following:

- a. Click the Next button to accept the default name.**
- b. Navigate to the desired location**

## ▼ **Installing Cygwin**

If not installed, you will be prompted whether to install Cygwin.

**a. Click the Yes button to proceed with the installation.**

Clicking No will abort the installation of Cygwin and Component Manager.

**b. Click the Next button at the Welcome window.**

**c. Click the Yes button to accept the License Agreement.**

**d. Click the Next button at the About Cygnus Solutions Welcome Box.**

**e. Choose the destination folder.**

Select a folder by performing one of the following:

- i. Click the Next button to accept the default folder.**
- ii. Click on the Browse button to navigate to the desired location.**

**f. Choose the folder name.**

Name a folder by performing one of the following:

- i. Click the Next button to accept the default folder name.**
- ii. Enter the name of the folder.**

**g. Click the Finish button to proceed with supplemental installations.**

## ▼ Installing the Java2 Runtime Environment

If not installed, you will be prompted whether to install the Java2 Runtime Environment (JRE).

**a. Click the Yes button to proceed with the installation.**

Clicking No will abort the installation of Java2 and Component Manager.

**b. Click the Yes button to accept the License Agreement.**

**c. Choose the destination folder.**

Select a folder by performing one of the following:

**iii. Click the Next button to accept the default folder.**

**iv. Click on the Browse button to navigate to the desired location.**

## Completing Installation of the Sun StorEdge Management Console

**8. Click the Finish button to complete setup and continue with Component Manager installation.**

# Installing Sun StorEdge Component Manager

1. Click the **Yes** button to accept the **License Agreement**.
2. Choose the **Next** button to begin copying files.
3. **Start Component Manager.**

At this point, start Component Manager one of the following ways:

- Select “No, I will restart my computer later” radio button, click the **Finish** button, and proceed with “Configuring the `hosts` File” on page 8, “Enabling Microsoft NT Email Notification” on page 9, and “Starting the Sun StorEdge Management Console” on page 10.

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**Caution** – Selecting the “Yes, I want to restart my computer now” radio button as directed below, will not allow you to configure StorEdge T300 disk arrays without: (1) exiting Component Manager, (2) “Manually Stopping the Component Manager Daemons” on page 11”, (3) “Configuring the `hosts` File” on page 8”, (4) “Enabling Microsoft NT Email Notification” on page 9,(5) “Manually Starting the Component Manager Daemons” on page 10”, and (6) “Starting the Sun StorEdge Management Console” on page 10”.

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- Click the “Yes, I want to restart my computer now” radio button and click the **Finish** button.

Continue with “Configuring the `hosts` File” on page 8.

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# Configuring Component Manager

Configuration consists of:

- “Configuring the `hosts` File” on page 8
- “Enabling Microsoft NT Email Notification” on page 9

## Configuring the `hosts` File

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**Note** – You must add the IP address and the component name of T300 subsystem to the `\etc\opt\SUNWesm\mo\hosts` file for Component Manager to communicate with a StorEdge T300 disk tray.

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- **Use an editor to make an entry in**  
`{your_installation_directory}\etc\opt\SUNWesm\mo\hosts`.

The entry format is shown below.

```
# Component Manager 2.1 - Component table
#
# Each component entry is specified by its IP address and name,
#   IP address Name
#   123.45.67.890 cafejapan
#
123.45.67.890 ada48
```

Continue with “Enabling Microsoft NT Email Notification” on page 9.



# Enabling Microsoft NT Email Notification

## 1. Stop ESMSERVICE.

If running, you must stop the ESMSERVICE.

- a. Open the Menu and select: Start->Settings->Control Panel.
- b. Select “ESMSERVICE” from the list.
- c. Click the Stop button.

## 2. Add host name to file.

- a. Change to the *install\_path\etc\opt\SUNWesm\SUNWencc\etc* directory as indicated.

If you used the default directory, the path would be as follows:

```
C: cd \Program Files\Sun Microsystems\StorEdge\etc\opt\SUNWesm\SUNWencc\etc
```

- b. Edit file *enclMgr\_rs\_message\_formats.cf* to contain the following line:

```
mailHost=hostname
```

where *hostname* is the host for the mail transport agent.

## 3. Add email address.

- a. “Manually Starting the Component Manager Daemons” on page 10.
- b. “Starting the Sun StorEdge Management Console” on page 10.
- c. See “To Enable Remote Reporting” in “Configuring With Component Manager” in the *Sun StorEdge Component Manager 2.1 User’s Guide*.

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# Starting Component Manager

## Manually Starting the Component Manager Daemons

The managed object station will automatically start after each reboot or if you wish you can start the managed station with the following procedure. If you have rebooted the system you may now proceed directly to starting the management console. Please see “Starting the Sun StorEdge Management Console” on page 10.

To manually start the managed object station:

1. **Open the Control Panel.**
2. **Double-click on Services.**
3. **Select “ESMSERVICE” in the list.**
4. **Click the Start button.**

You are now ready to start the console.

## Starting the Sun StorEdge Management Console

After the managed object station has been started, start the console.

- **Open the Menu: Start->Programs->StorEdge->Start Management Console**

You may now use Component Manager.

# Manually Stopping the Component Manager Daemons

When directed, you will need to manually stop the Component Manager daemons.

To manually stop the managed object station:

- 1. Open the Control Panel.**
- 2. Double-click on Services.**
- 3. Select “ESMService” in the list.**
- 4. Click the Stop button.**

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# Uninstalling the Software

To remove the Sun StorEdge Component Manager software, perform the following:

**1. Stop the Component Manager daemon.**

See “Starting Component Manager” on page 10.

**2. Unload the NT service.**

**a. Open the Menu and select: Start->Programs->Command Prompt**

**b. In the Command Prompt window, change to the  
{your\_Component\_Manager\_directory}\usr\opt\SUNWesm\sbin directory as  
indicated.**

If you used the default directory, the path would be as follows:

```
C: cd \Program Files\Sun Microsystems\StorEdge\usr\opt\SUNWesm\sbin
```

**c. Unload the NT service by entering the following:**

```
C: NTService -u
```

**3. Open the Menu and select: Start->Settings->Control Panel:**

**a. Click on Add/Remove Programs.**

**4. Remove Component Manager.**

**a. Select “Sun StorEdge Component Manager” from the list.**

**b. Click the Remove button.**

**c. Click the OK button to confirm removal.**

**d. Click the Finish button to acknowledge removal.**

5. Remove the Management Console.
  - a. Select “Sun StorEdge Management Console” from the list.
  - b. Click the Remove button.
  - c. Click the Remove radio button; then click the Next button.
  - d. Click the OK button to confirm removal.
  - e. Click the Finish button to acknowledge removal.
6. Remove the Java2 Runtime Environment.
  - a. Select “Java 2 Runtime Environment Standard Edition v1.2.2” from the list.
  - b. Click the Remove button.
  - c. Click the Yes button to confirm removal.
  - d. Click the OK button to acknowledge removal.
7. Remove Cygwin.
  - a. Select “Cygwin B20” from the list.
  - b. Click the Remove button.
  - c. Click the Yes button to confirm removal.
  - d. Click the OK button to acknowledge removal.
8. Exit the Control Panel.

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**Note** – Note the uninstallation procedure will remove the  
\\etc\\opt\\SUNWesm\\mo\\hosts file. See “Configuring the hosts File” on page 8.

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